# **Primary lithium battery** LS 14250

### 3.6 V Primary lithium-thionyl chloride (Li-SOCl<sub>2</sub>) High energy density <sup>1</sup>/<sub>2</sub> AA-size bobbin cell

#### **Benefits**

- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60°C/+85°C)
- Low self-discharge rate (less than 1 % per year of storage at +20°C)
- Easy integration into compact systems
- Superior resistance to atmospheric corrosion

#### **Key features**

- Stainless steel container and end caps (low magnetic signature)
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 60086-4 safety standard and IEC 60079-11 intrinsic safety standard (class T4 assignment)
- Underwriters Laboratories (UL) Component Recognition
- Non-restricted for transport/ Non-assigned to Class 9 according to the UN Recommendations on the transport of dangerous goods - Model Regulations
- Manufactured in France, UK, China

#### **Main applications**

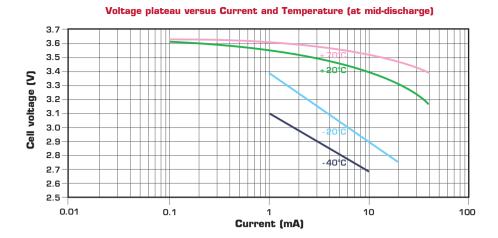
- Utility metering
- Automatic meter reading
- Alarms and security devices
- Tollgate systems
- Memory back-up
- Computer real-time clocks
- Tracking systems
- Automotive electronics
- Professional electronics

Cell size refer	rences	½ <b>R6</b> – ½ <b>AA</b>
Electrical charac	teristics	
(typical values relativ	ve to cells stored for one year or less at +30°C max.)	
Nominal capacity (at 1 mA +20°C 2.0 V cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off)		1.20 Ah
Open circuit voltage	(at +20°C)	3.67 V
Nominal voltage	(at 0.1 mA +20°C)	3.6 V
Nominal energy		4.32 Wh
3.0 V. The readings temperature, and the may be recommend Maximum recommend	with 10 μA base current, yield voltage readings above s may vary according to the pulse characteristics, the ne cell's previous history. Fitting the cell with a capacitor led in severe conditions. Consult Saft) nded continuous current e possible, consult Saft)	35 mA
Storage	(recommended) (for more severe conditions, consult Saft)	+30°C (+86°F) max
Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)		-60°C/+85°C (-76°F/+185°F)
Physical characte	eristics	
Diameter (max)		14.55 mm (0.57 in)
Height (max)		25.15 mm (0.99 in)

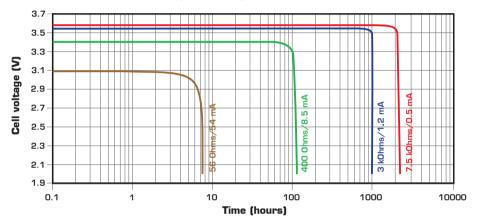
Biamotor (max)				
Height (max)			25.15 mm (0.99 in)	
Typical weight			8.9 g (0.3 oz)	
Li metal content			approx. 0.3 g	
Available termination suffix				
	CN, CNR	radial tabs		
	2 PF, 3 PF, 3 PF RP, 4 PF	radial pins		
	CNA (AX)	axial leads		
	FL	flying leads <i>etc.</i>		



## LS 14250







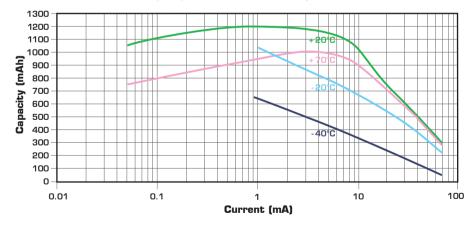
#### Storage

• The storage area should be clean, cool (preferably not exceeding + 30°C), dry and ventilated.

#### Warning

- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).

#### Restored Capacity versus Current and Temperature (2.0 V cut-off)



#### Saft

#### **Specialty Battery Group**

12, rue Sadi Carnot 93170 Bagnolet - France Tel.: +33 (0)1 49 93 19 18 Fax: +33 (0)1 49 93 19 69

#### www.saftbatteries.com

#### Doc. Nº 31072-2-0909

Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft. For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2. Published by the Communications Department. Photo credit: Saft Société anonyme au capital de 31 944 000  $\in$ RCS Bobigny B 383 703 873 Produced by Arthur Associates Limited.

